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Order from LC or SLA mi\$2.40, ph\$3.30 AEC-tr-4243

Trans. of [*Atomnaya Energiya (USSR) 1958, v. 4,
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Also available from CB \$12.50

The present article is a study of the hazards from the
global radioactive fallout of continuous atomic bomb
tests of 11 megaton TNT equivalent per year. The
Sr⁹⁰ concentration in the bones is calculated, as well
as the number of incidences of leukemia (blood
cancer) and the number of cases of genetic damage.
Calculations show that at the end of the century the
Sr⁹⁰ concentration in vertebrae may be greater than
the official maximum allowable concentration for a
large segment of the population, and that each year of
continued testing increases by 44,000 number of per-
sons in the world burdened with hereditary disease
and by 29,000 the cases of leukemia. (Author)

61-13918

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THE NATIONAL DEFENSE UNIVERSITY

WASHINGTON, D.C.

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